

Parham Moonesi Sohi

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RESEARCH INTERESTS

- Use of Machine Learning in Brain Data Analysis
- Computational Neuroscience
- Machine Learning

EDUCATION

- **Amirkabir University of Technology**
B.Sc. in Computer Engineering, Fall 2019 - Present
GPA: 18.83/20 (3.92/4)
- **Allameh Helli High School**, National Organization for Development of Exceptional Talents
Diploma in Mathematics and Physics, Fall 2016 - Summer 2019
GPA: 19.1/20

RESEARCH EXPERIENCES

- Research Assistant, **Adversarial Robustness of Face Reconstruction Networks** - Summer 2023
Under the supervision of Assistant Professor **Ahmad Nickabadi**
- Research Assistant, **Alzheimer's disease detection using machine learning** - Spring 2023
Under the supervision of Assistant Professor **Ehsan Nazerfard**
- Research Assistant, **Investigating the use of neural networks in human hearing aids** - Spring 2022
It was done as the result of **Research and Technical Presentation** course

WORK EXPERIENCES

- Cyber Security Engineer, **Penetration Testing - Saba System Sadra** - Fall 2022 until Present
- Cyber Security Internship, **Penetration Testing - Saba System Sadra** - Summer 2022
- Frontend Development Internship, **Frontend Developer - Eduland/Danio** - Spring 2022

TEACHING ASSISTANCE EXPERIENCES

- Teaching Assistant, **Principles and Applications of Artificial Intelligence** - Fall 2022
Under the supervision of Assistant Professor **Mahdi Javanmardi**
- Workshop Assistant, **Advanced Programming** - Spring 2021
Under the supervision of Assistant Professor **Hossein Zeinali**
- Teaching Assistant, **Fundamentals of Computer Programming** - Fall 2020
Under the supervision of Assistant Professor **Bahador Bakhshi**

PROJECTS

- **Parasite Egg Detection in Animal Faeces** - Winter 2022
Utilized different object detection models (YOLO, Faster RCNN and RetinaNet) for a parasite egg detection task.

OTHER SCIENTIFIC ACTIVITIES

- Online Course, **Deep Learning Specialization** - Coursera
Offered by **deeplearning.ai** - certificate
- Online Course, **Computational Neuroscience** - Coursera
Offered by **University of Washington** - certificate
- Online Course, **Fundamental Neuroscience for Neuroimaging** - Coursera
Offered by **Johns Hopkins University** - certificate
- Online Workshop, **From Single Neuron to Learning in Networks** - Sharif Neuroscience Symposium
Offered by **IPM** - certificate

HONORS AND AWARDS

- Participated in **the First Neuroscience Congress** of Allameh Helli - Summer 2023
- Achieved top **1%** place among all applicants for the University Entrance Nationwide Exam (Approximately 200000 applicants) Iran. - Summer 2019

TECHNICAL SKILLS

- Programming Languages: **Python, Java, C/C++**
- Frameworks and Libraries: **Tensorflow, Keras, Pytorch, Numpy, ReactJS, Django, Cuda, OpenMP**
- Tools: **Git, Jupyter Notebook, Google Colab, VSCode, Bash, Burp-Suite**

LANGUAGES

- Persian (Native)
- English (Learning)